

### III. Remarks:

Reconsideration of this application is respectfully requested.

FIGS. 10, 68B, 69-95 are being amended, for consistency, to add letter (A, B, C, as applicable) to distinguish the transformer (T1) windings. These letters appear in other similar FIGS. throughout the specification.

FIGS. 14, 24, 45, 58-60 and 65 are being amended to remove dots where they previously appeared at three-line (T) intersections. This convention has been used throughout the FIGS. Similarly, FIGS. 30, 35A, 36, 38A, 39, 48, 50, 66, 69-72, 75-79, 81-86, 88-93 and 95 are being amended to provide dots at all four-line (+) intersections. The four-line intersections are clearly supported in the detailed description and other FIGS where equivalent three-line intersections are shown, see for example the three-line intersections of FIG. 22 that become the four-line intersections of FIG. 30 and the three-line intersections of FIG. 62 that are equivalent to the four-line intersection of FIG. 63. In FIG. 38A, the winding 38A has been shifted; so that, it does not obscure the two-line crossing beneath it.

FIGS. 21, 41, 68B, 69, 71-73, 75-77, 79, 80, 82, 83, 85, 87, 89-91, 93 and 94 are being amended, for consistency, to add a ground symbol. This symbol appears in other similar FIGS. throughout the specification.

FIG. 26 is being amended to correct an obvious error by moving a single connection. The FIG. now provides the two-phase interleaved non-isolated full-bridge DC converter specified at page 31, lines 11-16; rather than, simply grounding both sides of Vin. Similar amendments are made in FIG. 35B.

FIGS. 71, 75, 79, 85, 89, and 93 are being amended to show the proper connection between the high side circuit and the first voltage output. Support for the

amendment is found throughout the specification. In particular, this connection is shown in FIGS. 68B, 70, 72, 74, 76, 78, 84, 86, 88, 90 and 92 and the specification indicates that each of FIGS. 68B, 70-72, 74-76, 78-79, 84-86, 88-90 and 92-93 have the same connections except within the rectifier circuit itself (see page 44 lines 9-11 and lines 17-19, page 45 lines 7-11, page 45 line 17-page 46 line 3, page 46 lines 9-18, page 48 line 11-page 49 line 1, page 49 lines 7-21, page 49 line 27-page 50 line 8).

No new matter is being added by the amendments to the drawings.

The Applicants would like to thank the Examiner for taking the time to speak with the Applicants' agent regarding the outstanding office action. The Examiner's comments were very helpful in preparing this Amendment and Reply to Office Action.

Claims 1-67 are pending in the application. Claims 1, 65 and 66 are independent.

Claims 1, 2, 4, 6, 9, 13, 16, 19-21, 24-27, 31, 34, 36, 40-44, 51, 53, 54, 65 and 66 are currently amended. Dependent claim 67 is new. Numerous dependent claims previously depending from claim 1 are being amended to depend from claim 67. The amendments are fully supported throughout the specification. No new matter is being added.

The Applicants are replacing almost all occurrences in the claims of "voltage input", "voltage output" and "high side circuit output" with "voltage input point", "voltage output point" and "high side circuit output point", respectively. This further distinguishes the input points and the output points from the input voltage and the output voltage, and further highlights the distinctions between the invention as claimed and the cited references. In particular, in independent claims 1 and 65 the high side circuit has one and only one high side circuit output point connected such that current flowing

through the first primary winding is directed between the high side circuit output point and the first voltage output point. In claim 66 the high side circuit has a high side circuit output point connected such that current flowing from the high side circuit output point flows directly to the first voltage output point.

In the outstanding office action the Examiner has again rejected each of the claims based separately upon very similar references of Wei et al. (6,757,184) and Xu et al (2004/0246748). The invention as claimed is clearly distinct from both cited references in which a full bridge circuit has first and second legs 20, 22 and a transformer secondary winding W2 is connected between the legs 20, 22 (see Wei et al col. 3, l. 14-25). The first and second legs 20, 22 are connected at two separate points (on either side of the winding W2). One point connects to Buck output circuit 28, while the other point connects to Buck output circuit 30.

Each of the independent claims is therefore allowable. As each of the remaining claims is directly or indirectly dependent on an independent claim, the remaining claims are also allowable.

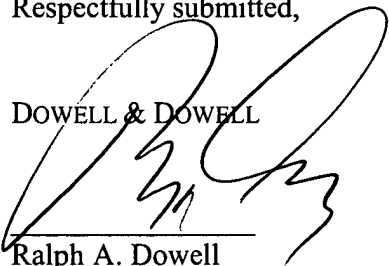
All of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply to Office

Action is respectfully requested.

Respectfully submitted,

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II. *Amendments to the drawings:*

Please replace the sheets with FIGS. 10, 14, 21, 24, 26, 30, 31, 35A, 35B, 36, 38A, 39-41, 45, 48, 50, 51, 58-60, 65, 66, 68A, 68B and 69-95 with the 36 appended Replacement Sheets containing FIGS. with the same numbers.